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1 1. In combination for providing for the introduction of satellite television
2 into apartments in an apartment building having a cable plant wired to distribute terrestrial
3 television from a cable head end system,
4 means at the apartment building for receiving signals providing the satellite
5 television and having a first particular framing,
6 means at the apartment building for reframing the satellite television signals
7 in the first particular framing to a second particular framing corresponding to that provided
8 for terrestrial television,
9 means at the apartment building for distributing the signals in the second
10 particular framing through the cable plant, and
11 means at the apartments in the apartment building for operating upon the
12 signals in the second particular framing, after the passage of such signals through the cable
13 plant, to deframe the television signals prior to conversion to a television image.

1 2. In a combination as set forth in claim 1 wherein
2 the signals are modulated directly from the second particular framing for the
3 terrestrial television before the signals are passed through the cable plant and wherein
4 the signals modulated for terrestrial television are demodulated after passage
5 through the cable plant.

1 3. In a combination as set forth in claim 1 wherein
2 means are provided at the apartments in the apartment building for operating
3 upon the signals in the second particular framing, after the deframing of such signals, to
4 provide for the reproduction of the television image represented by such signals.

1 4. In a combination as set forth in claim 1 wherein
2 the signals received at the apartment building are in the form of packets
3 defined by a first particular number of signal bytes in each packet and wherein the reframing
4 means reframe the packets from the first particular framing to the second particular framing
5 defined by a second particular number of signal bytes in each such packet and wherein
6 means are provided at the apartment building for adding a side byte at a particular position

7 in each packet in the first particular framing to provide information to the apartment house
8 for processing the information in such packet.

1 5. In a combination as set forth in claim 2 wherein
2 means are provided at the apartments in the apartment building for operating
3 upon the signals in the second particular framing, after the deframing of such signals, to
4 provide for the reproduction of the television image and wherein
5 the signals received at the apartment building are in the form of packets
6 defined by a first particular number of signal bytes in each packet and wherein the reframeing
7 means reframe the packets from the first particular framing to the second particular framing
8 defined by a second particular number of signal bytes in each such packet and wherein
9 means are provided at the apartment building for adding a side byte at a particular position
10 in each packet in the first particular framing to provide information to the apartment house
11 for processing the information in such packet.

1 6. In combination for providing for the introduction of satellite television
2 from satellite transponders into television receivers in apartments in an apartment building
3 having a cable plant wired to distribute terrestrial television from a cable head end system,
4 means at the apartment building for receiving packets of signal bytes from the
5 satellite transponders, each packet being defined by a first frame having a first particular
6 number of signal bytes,
7 means at the apartment building for reframing the packets of signal bytes in
8 the first frames to packets each defined by a second particular number of signal bytes in a
9 second frame different from the first frame and corresponding to that provider from the
10 terrestrial transponders
11 means at the apartment building for distributing the signal bytes in the second
12 frames through the cable plant, and
13 means at the apartment in the apartment building for deframing the packets of
14 signal bytes in the second frames after the passage of the signal bytes in the second frames
15 through the cable plant.

1 7. In combination as set forth in claim 6 wherein
2 the signal bytes in the packets in the second frames are modulated before
3 such signal bytes are distributed through the cable plant and wherein
4 the signal bytes modulated in the packets in the second frames for terrestrial
5 navigation are demodulated after such modulated signal bytes are distributed through the
6 cable plant.

1 8. In a combination as set forth in claim 6 wherein
2 at least one additional signal byte is provided at the apartment building with
3 each of the packets of the signal bytes in the first frames to indicate the existence or lack of
4 existence of a forward uncorrectable error in the packet and wherein
5 means are provided for reformatting the at least one additional signal byte at
6 the apartment building in the first frames in accordance with the reframing of the packets
7 from the first frames to the second frames and wherein
8 means are provided for processing the at least one additional signal byte, after
9 the reframing of each packet in the second frame, to provide for the operation of the
10 television receivers in the apartments in the apartment building in finding and reproducing

11 the television image represented by the signal bytes from the satellite transponders,
12 including error concealment if necessary.

1 9. In a combination as set forth in claim 6 wherein
2 at least one additional signal byte is provided at the apartment building with
3 each of the packets of the signal bytes in the first frames to indicate particular information
4 individual to such packets and wherein

5 means are provided at the apartment building for reforming the at least one
6 additional signal byte at the apartment building in accordance with the reframing of the
7 packets from the first frames to the second frames and wherein

8 means are provided at the apartment building for processing the particular
9 information in the at least one additional byte after the reframing of the packets from the
10 first frames to the second frames.

1 10. In a combination as set forth in claim 8 wherein
2 at least one additional signal byte is provided at the apartment building with
3 each of the packets of the signal bytes in the first frames to indicate particular information
4 individual to such packets and wherein

5 means are provided at the apartment building for reforming the at least one
6 additional signal byte at the apartment building in accordance with the reframing of the
7 packets from the first frames to the second frames and wherein

8 means are provided at the apartment building for continued processing of the
9 particular information in the at least one additional byte after the reframing of the packets
10 from the first frames to the second frames.

1 11. In combination for providing for the introduction of satellite television
2 from satellite transponders into apartments in an apartment building having a cable plant
3 wired to distribute terrestrial television from a cable head end system,

4 means at the apartment building for receiving a plurality of first packets each
5 defined by a first sync byte and by a first number of signal bytes individual to satellite
6 television,

7 means at the apartment building for providing second sync bytes at positions
8 in the first packets to define second packets each having a second number of signal bytes for
9 terrestrial television, the second number being different from the first number,

10 means at the apartment building for providing continued processing of the
11 second packets of signal bytes in accordance with the positioning of the second sync bytes.

1 12. In combination as set forth in claim 11,

2 means at the apartment building for adding to each of the first packets a side
3 byte at a particular position relative to the first sync byte for such packet to provide
4 additional information to aid in the detection and processing of the signal bytes in the
5 packets, and

6 means at the apartment in the apartment building for processing the signal
7 bytes in the second packets in accordance with the additional information supplied in the
8 side bytes for the detection and processing of the signal bytes in the packets, including error
9 concealment if necessary.

1 13. In a combination as set forth in claim 11,
2 the receiving means at the apartment building also receiving for each of the
3 first packets a first plurality of bytes including a forward error correction for each of the first
4 packets,

5 means at the apartment building for reframing the first plurality of bytes into
6 a second plurality of bytes and adding the forward error correction for the second packets,

1 14. In a combination as set forth in claim 11,
2 means at the apartment building for modulating the signal bytes in each of the
3 second packets after the second sync bytes and a new forward error correction have been
4 added,

5 a cable plant at the apartment building for distributing the modulated signal
6 bytes in each of the second packets, and

7 means at the apartments in the apartment building for demodulating the
8 modulated signal bytes in the second packets after the passage of the modulated signal bytes
9 in the second packets through the cable plant.

1 15. In a combination as set forth in claim 12,
2 the receiving means at the apartment building also receiving a first plurality
3 of bytes as well as a forward error correction for each of the first packets,
4 means at the apartment building for converting the first plurality of bytes into
5 a second plurality of bytes and adding the forward error correction for the second packets,
6 means at the apartment building for modulating the signal bytes in each of the
7 second packets after the second sync bytes have been added,
8 a cable plant at the apartment building for distributing the signal bytes in each
9 of the second packets, and
10 means at the apartments in the apartment building for demodulating the
11 modulated signal bytes in the second packets after the distribution of the modulated signal
12 bytes in the second packets through the cable plant.

1 16. In combination for providing for the introduction of satellite television
2 from satellite transponders into apartments in an apartment building having a cable plant
3 wired to distribute terrestrial television from a cable head end system,

4 means at the apartment building for receiving MPEG2_{QPSK} signals from the
5 satellite transponders,

6 means at the apartment building for reframing the MPEG2_{QPSK} signals into
7 MPEG2_{QAM} signals representing terrestrial television from the terrestrial transponders,

8 means at the apartment building for providing side signals providing
9 information to aid in processing to be provided in the apartments in the apartment building
10 on the QAM signals, and

11 means at the apartments in the apartment building for processing the QAM
12 signals in accordance with the information provided by the side signals.

1 17. In a combination as set forth in claim 16 wherein

2 the receiving means receives signals including forward error correction bytes
3 in the MPEG2_{QPSK} signals and wherein

4 means are provided at the apartment buildings, to perform forward error
5 corrections in the MPEG2_{QPSK} signals, for creating an uncorrectable error flag and for
6 creating new forward error correction bytes for the MPEG2_{QAM} signals and wherein

7 means are provided at the apartment building for performing forward error
8 corrections at the apartments in the apartment building using the forward error correction
9 bytes in the MPEG2_{QAM} signals.

1 18. In a combination as set forth in claim 16,
2 means at the apartment building for providing side signals having indications
3 aiding in the detection and processing of the MPEG2_{QAM} signals received at the apartment
4 buildings and
5 means at the apartment building for detecting and reproducing the
6 MPEG2_{QAM} signals in accordance with the indications in the side signals.

1 19. In a combination as set forth in claim 16,
2 the MPEG2_{QPSK} signals being provided in packets of first signal lengths, the
3 MPEG2_{QPSK} signals also including sync signals indicating the beginning of the packets of the
4 first signal lengths,
5 the MPEG2_{QAM} signals being provided in packets of second signal lengths
6 different from the first signal lengths,

7 means responsive at the apartment building for including, in each packet of
8 the MPEG2_{QAM} signals, signals indicating the beginning of each MPEG2_{QPSK} packet,
9 means responsive to the sync signals for the MPEG2_{QPSK} packets, and to the
10 relative lengths of the MPEG2_{QPSK} and MPEG2_{QAM} packets, for producing separate sync
11 signals at the beginning of each of the MPEG2_{QAM} packets.

1 20. In a combination as set forth in claim 19 wherein
2 the receiving means receives signals including forward error correction bytes
3 in the MPEG2_{QPSK} signals and wherein
4 means are provided at the apartment buildings, to perform forward error
5 corrections in the MPEG2_{QPSK} signals, for creating an uncorrectable error flag and for
6 creating new forward error correction bytes in the MPEG2_{QAM} signals and wherein
7 means are provided at the apartment building for performing forward error
8 corrections at the apartments in the apartment building using forward error correction bytes
9 in the MPEG2_{QAM} signals and wherein

10 means are provided at the apartment building for providing side signals
11 having indications aiding in the detection and processing of the MPEG2_{QAM} signals received
12 at the apartment buildings and wherein
13 means are provided at the apartment building for detecting and reproducing
14 the MPEG2_{QAM} signals in accordance with the indications in the side signals.

1 21. In combination for providing for the introduction of satellite television
2 into apartments in an apartment building having a cable plant wired to distribute terrestrial
3 television signals,

4 means at the apartment building for receiving MPEG2_{QPSK} packets of signal
5 bytes, each MPEG2_{QPSK} packet including a first particular number of signal bytes and
6 including a first sync byte at the beginning of each MPEG2_{QPSK} packet,

7 means at the apartment building for reframing the MPEG2_{QPSK} packets of
8 signal bytes into MPEG2_{QAM} packets of signal bytes, each such QAM packet including a
9 second particular number of signal bytes where the second particular number is different
10 from the first particular number, and

11 means at the apartment building for providing a second sync byte at the
12 beginning of each MPEG2_{QAM} packet of signal bytes.

1 22. In a combination as set forth in claim 21,
2 means at the apartment building for providing a plurality of superpackets
3 each including a particular number of the MPEG2_{QPSK} packets of signal bytes and the first
4 sync bytes for the MPEG2_{QPSK} packets of signal bytes in such superpacket and the second
5 sync signals for the MPEG2_{QAM} packets of the signal bytes in such superpacket.

1 23. In a combination as set forth in claim 21,
2 means at the apartment building for providing a side byte for each of the
3 MPEG2_{QPSK} packets of signal bytes, the side bytes aiding in detection and processing of the
4 MPEG2_{QAM} signals,

5 means at the apartment building for separating the side bytes from the
6 MPEG2_{QAM} packets of the signal bytes, and

7 means responsive at the apartment building to the side bytes for processing
8 the MPEG2_{QAM} packets of signal bytes in accordance with the indications in the side bytes.

9 24. In a combination as set forth in claim 22,
10 means at the apartment building for providing a side byte at a particular
11 position in each of the MPEG2_{QPSK} packets before the reframing of the MPEG2_{QPSK} packets
12 into MPEG2_{QAM} packets,
13 the MPEG2_{QPSK} packets of signal bytes providing information for the
14 production of television images,
15 each side byte providing information relating to the detection and processing
16 of the signal bytes in the MPEG2_{QAM} packets to obtain television images, and
17 means at the apartment building for processing the information in the side
18 bytes in the MPEG2_{QAM} packets, after the reframing of the MPEG2_{QPSK} packets into the
19 MPEG2_{QAM} packets, to facilitate the distribution of the television images.

1 25. In a combination as set forth in claim 21,
2 the receiving means being operative to receive signal bytes including forward
3 error correction bytes in the MPEG2_{QPSK} packets,

4 means for performing forward error correction in the MPEG2_{QPSK} packets,
5 before the reframing of the signal bytes in the MPEG2_{QPSK} packets into the MPEG2_{QAM}
6 packets of signal bytes, and

7 means for adding signal bytes representing new forward error correction in
8 the MPEG2_{QAM} packets in a form compatible with the signal bytes in the MPEG2_{QAM}
9 packets, such means being operative after the reframing of the MPEG2_{QPSK} packets of signal
10 bytes into the MPEG2_{QAM} packets of signal bytes.

1 26. In a combination as set forth in claim 21,
2 the apartment building having a cable plant constructed to distribute the
3 MPEG2_{QAM} packets of signal bytes,

4 means at the apartment building for modulating the MPEG2_{QAM} packets of
5 signal bytes before the distribution of such packets through the cable plant,

6 means for distributing the MPEG2_{QAM} packets of the modulated signals
7 through the cable plant, and

8 means for demodulating the MPEG2_{QAM} packets of the modulated signal
9 bytes after the passage of such modulated signal bytes through the cable plant.

1 27. In a combination as set forth in claim 26,
2 the signal bytes in the MPEG2_{QPSK} packets received by the receiving means
3 being compressed,
4 means for decompressing the MPEG2_{QPSK} signal bytes in the MPEG2_{QAM}
5 packets after such signal bytes have been demodulated, and
6 means for operating upon the decompressed MPEG2_{QPSK} signal bytes in the
7 MPEG2_{QAM} packets to recover the television images.

1 28. In a combination as set forth in claim 22,
2 means at the apartment building for providing a side byte at a particular
3 position in each of the MPEG2_{QPSK} packets before the reframing of the MPEG2_{QPSK} packets
4 of signal bytes into the MPEG2_{QAM} packets of signal bytes,
5 the signals bytes in the MPEG2_{QPSK} packets providing information for the
6 production of television images
7 each side byte in the MPEG2_{QAM} packets providing information relating to
8 the detection and processing of the signal bytes in the MPEG2_{QAM} packets to obtain
9 television images,

10 means at the apartment building for processing the information in the side
11 bytes in the MPEG2_{QAM} packets, after the reframing of the MPEG2_{QPSK} packets into the
12 MPEG2_{QAM} packets, to facilitate the distribution of the television images,
13 the receiving means being operative to receive the MPEG2_{QPSK} packets of
14 signals bytes including forward error correction,
15 means for performing forward error correction in the MPEG2_{QPSK} packets
16 before the reframing of the MPEG2_{QPSK} packets of signal bytes into the MPEG2_{QAM} packets
17 of signal bytes, and
18 means for adding signal bytes representing new forward error correction in a
19 form compatible with the signal bytes in the MPEG2_{QAM} packets, such means being
20 operative after the reframing of the MPEG2_{QPSK} packets of signal bytes into the MPEG2_{QAM}
21 packets of signal bytes,
22 the apartment building having a cable plant constructed to distribute the
23 MPEG2_{QAM} packets of signal bytes,
24 means at the apartment building for modulating the MPEG2_{QAM} packets of
25 signal bytes before the distribution of such packets through the cable plant,

26 means for distributing the MPEG2_{QAM} packets of modulated signal bytes
27 through the cable plant,
28 means for demodulating the MPEG2_{QAM} packets of modulated signal bytes
29 after the distribution of such MPEG2_{QAM} packets through the cable plant.
30 the signal bytes in the MPEG2_{QPSK} packets received by the receiving means
31 being compressed,
32 means for decompressing the MPEG2_{QPSK} signal bytes in the MPEG2_{QAM}
33 packets after such signal bytes have been demodulated, and
34 means for operating upon the decompressed MPEG2_{QPSK} signal bytes in the
35 MPEG2_{QAM} packets to recover the television images.

1 29. In combination for providing for the introduction of satellite television
2 from satellite transponders into apartments in an apartment building having a cable plant
3 wired to distribute terrestrial television from a cable head end system,
4 means at the apartment building for receiving MPEG2_{QPSK} packets of signal
5 bytes, each packet including a first particular number of signal bytes and including a first
6 sync byte at the beginning of the signal bytes forming each MPEG2_{QPSK} superpacket,

7 a second particular number of the MPEG2_{QPSK} packets defining a superpacket,
8 means at the apartment building for reframing the MPEG2_{QPSK} packets of
9 signal bytes in each superpacket into MPEG2_{QAM} packets of signal bytes in such
10 superpacket, each such MPEG2_{QAM} packet including a third particular number of signal
11 bytes where the third particular number is different from the first particular number,
12 means at the apartment building for providing a second sync byte at the
13 beginning of each MPEG2_{QAM} packet of signal bytes in each superpacket,
14 means responsive at the apartments in the apartment building to the sync byte
15 in the MPEG2_{QAM} packets of signal bytes for processing the signal bytes in such MPEG2_{QAM}
16 packets to recover the television images represented by such signal bytes.

1 30. In a combination as set forth in claim 29,
2 the apartments in the apartment building having television receivers,
3 means at the apartment building for providing a side byte in each MPEG2_{QAM}
4 packet of signal bytes in each superpacket, the side bytes in the MPEG2_{QAM} packets having
5 bits cumulatively indicating individual processing to be provided for the received television
6 signals, and

7 means responsive to the cumulative indications of the particular bits in the
8 side bytes in the MPEG2_{QAM} packets for providing the individual processing cumulatively
9 indicated by such bits.

1 31. In a combination as set forth in claim 29,
2 means at the apartment building for using, in each of the MPEG2_{QPSK} packets
3 of signal bytes in each superpacket, signal bytes indicating a forward error correction, and
4 means at the apartment building for substituting, for the signal bytes
5 indicating the forward error correction for each of the MPEG2_{QPSK} packets of signal bytes,
6 signal bytes indicating such forward error correction for each of the MPEG2_{QAM} packets of
7 signal bytes in such superpacket.

1 32. In a combination as set forth in claim 31,
2 means at the apartment building for providing corrections in the television
3 receivers in the apartments in the apartment building in accordance with the forward error
4 corrections indicated by the signal bytes for each of the MPEG2_{QAM} packets in each
5 superpacket.

1 33. In a combination as set forth in claim 30,
2 each of the side bytes in each MPEG2_{QAM} packet of signal bytes including a
3 bit indicating the occurrence or lack of occurrence of an uncorrectable error in such packet,
4 each MPEG2_{QPSK} packet of signal bytes in each superpacket including
5 additional bytes indicating uncorrectable errors, and
6 means for embedding the uncorrectable error indicated in each MPEG2_{QPSK}
7 packet of signal bytes in each superpacket with signal bytes in each MPEG2_{QAM} packet.

1 34. In a method of providing for the introduction of satellite television from
2 satellite transponders into apartments in an apartment building having a cable plant to
3 distribute terrestrial television from a head end system,
4 receiving at the apartment building packets of MPEG2_{QPSK} signal bytes where
5 each packet includes a first particular number of MPEG2_{QPSK} signal bytes and includes a first
6 sync byte defining the beginning of such packet and where a second particular number of the
7 packets defines a superpacket and where the MPEG2_{QPSK} signal bytes provide the satellite
8 television,

9 providing a second sync byte at the beginning of each packet of MPEG2_{QAM}
10 signal bytes in each superpacket where the QAM signal bytes provide the terrestrial
11 television and where each packet of the MPEG2_{QAM} signal bytes includes a third particular
12 number of signal bytes and where the third particular number is different from the first
13 particular number, and

14 using the second sync bytes in the MPEG2_{QAM} packets in each superpacket to
15 provide a processing of the MPEG2_{QAM} packets of signal bytes in each superpacket.

1 35. In a method as set forth in claim 34, the steps of:

2 providing at a particular position in each MPEG2_{QPSK} packet of signal bytes
3 in each superpacket a side byte providing information controlling the detection and
4 processing of the signal bytes in such MPEG2_{QAM} packet in such superpacket, and

5 processing each MPEG2_{QAM} packet of signal bytes in each superpacket in
6 accordance with the information controlling in the side bytes the processing of the signal
7 bytes in such MPEG2_{QAM} packet.

1 36. In a method as set forth in claim 34, the steps of:
2 providing, at a particular position in each of the MPEG2_{QPSK} packets of signal
3 bytes in each superpacket, a side byte providing indications of the existence or lack of
4 existence of uncorrectable errors in such MPEG2_{QPSK} packet,
5 processing the MPEG2_{QPSK} packets of signal bytes in each superpacket in
6 accordance with the indication in the side bytes of such MPEG2_{QPSK} packets of the existence
7 or lack of existence of the uncorrectable errors in such MPEG2_{QPSK} packets and in
8 accordance with the additional signal bytes indicating the uncorrectable errors in such
9 MPEG2_{QPSK} packets.

1 37. In a method as set forth in claim 34,
2 providing, at a particular position in each MPEG2_{QPSK} packet of signal bytes
3 in each superpacket, a side byte providing at a particular bit in such side byte information
4 cumulatively controlling, with the information at the particular bit in other MPEG2_{QPSK}
5 packets in such superpacket, the processing of the signal bytes in the MPEG2_{QAM} packets in
6 such superpacket, and

7 processing the MPEG2_{QAM} packets of signal bytes in each superpacket in
8 accordance with the information cumulatively controlling, in the side bytes in such packets
9 in such superpacket, the processing of the signal bytes in the MPEG2_{QAM} packets in such
10 superpacket.

1 38. In a method as set forth in claim 35,
2 providing, at a particular position in each of the MPEG2_{QPSK} packets of signal
3 bytes in each superpacket, a side byte providing indications of the existence or lack of
4 existence of uncorrectable errors in such MPEG2_{QPSK} packets,
5 providing, in each MPEG2_{QPSK} packet of signal bytes in each superpacket,
6 additional signal bytes indicating the uncorrectable errors in such MPEG2_{QPSK} packets, and
7 processing the MPEG2_{QPSK} packets of signal bytes in each superpacket in
8 accordance with the indication in the side bytes of the existence or lack of existence of the
9 uncorrectable errors in such MPEG2_{QPSK} packets and in accordance with the additional
10 signal bytes indicating the uncorrectable errors in such MPEG2_{QPSK} packets,

11 providing at a particular binary bit in each side byte information cumulatively
12 controlling, with the information at the particular binary bit in other side bytes in such
13 superpacket, the processing of the signal bytes in such packets in such superpacket, and
14 processing the MPEG2_{QAM} packets of signal bytes in each superpacket in
15 accordance with the information cumulatively controlling, in the side bytes in the
16 MPEG2_{QPSK} packets in such superpacket, the processing of the signal bytes in the
17 MPEG2_{QAM} packets in such superpacket.

1 39. In a method of providing for the introduction of satellite television from
2 satellite transponders into apartments in an apartment building having a cable plant wired to
3 distribute terrestrial television from a head end system, the steps of:

4 providing at the apartment building signal bytes in MPEG2_{QPSK} packets each
5 defined by a first particular number of signal bytes,

6 providing a plurality of the MPEG2_{QPSK} packets of signal bytes in a
7 superpacket,

8 reframing the signal bytes in the superpacket into MPEG2_{QAM} packets of
9 signal bytes where each MPEG2_{QAM} packet is defined by a second particular number of
10 signal bytes different from the first particular number of signal bytes, and
11 processing the MPEG2_{QAM} signal bytes in the packets in the superpacket to
12 form television images.

1 40. In a method as set forth in claim 39, the steps of:
2 the signal bytes in the MPEG2_{QAM} packets in the superpacket being
3 compressed,
4 deframing the reframed MPEG2_{QPSK} packets of signal bytes, and
5 decompressing the deframed MPEG2_{QPSK} packets of signal bytes in the
6 superpacket.

1 41. In a method as set forth in claim 39, the steps of:
2 modulating the signal bytes in the MPEG2_{QAM} packets in each superpacket,
3 distributing the modulated signal bytes using QAM through the cable plant,
4 and

5 demodulating the modulated QAM signal after passage of such modulated
6 signal bytes through the cable plant.

1 42. In a method as set forth in claim 39, the steps of:
2 detecting sync bytes at the beginning of each of the MPEG2_{QPSK} packets of
3 signal bytes in each superpacket,
4 forming sync bytes at the beginning of each of the MPEG2_{QAM} packets of
5 signal bytes in each superpacket, and
6 reframing the signal bytes in the MPEG2_{QAM} packets of signal bytes in each
7 superpacket in accordance with the sync bytes at the beginning of each of the MPEG2_{QAM}
8 packets of signal bytes in each superpacket.

1 43. In a method of providing a television image on the face of a monitor in a
2 television receiver, the steps of:
3 receiving a plurality of packets each including a plurality of signal bytes
4 representing images to be displayed on the face of the television receiver,

5 providing in each of the received packets a sync byte indicating a first one of
6 the packets in the plurality,

7 providing a side byte at each of the packets in the plurality, each of the side
8 bytes being formed from a plurality of bits,

9 providing, at a particular position in each of the side bytes, a bit cumulatively
10 indicating with corresponding bits in a sequence of the side bytes in successive instances of
11 the packets, an individual selection of a plurality of television channels in the television
12 receiver to receive the signal bytes, and

13 processing the signal bytes in the packets to provide the television image in
14 the individual selection of the channels in the monitor in the television receiver.

1 44. In a method as set forth in claim 43, the steps of:

2 each of the received packets constituting first packets and being defined by a
3 first number of signal bytes,

4 reframing the first packets to form second packets each defined by a second
5 number of signal bytes,

6 distributing the second packets through a cable plant, and

7 deframing the second packets, after the passage of the second packets through
8 the cable plant, to for the first packets for the processing of the first packets to provide the
9 television image in the individual selection of the channels in the monitor in the television
10 receiver.

1 45. In a method as set forth in claim 43, the step of:
2 the sequence of the signal bytes constituting a first sequence providing, at the
3 particular position in the side bytes, bits cumulatively indicating, for a second sequence of
4 the side bytes, the health and status of the head end system,
5 processing the bits in the side bytes in the second sequence to indicate the
6 health and status of the head end system.

1 46. In a method as set forth in claim 43, the step of:
2 the particular position in each of the side bytes constituting a first particular
3 position,

4 providing, at a second particular position in each of the side bytes, an
5 indication of whether any error in the packet following such side byte is an uncorrectable
6 error,
7 providing for each of the packets a plurality of bytes used for forward error
8 correction, and
9 processing the bytes indicating the forward error correction for each packet in
10 accordance with the value of the bits at the second particular position in the side bytes for
11 each packet.